

Patient-Exposure-Outcome (PEO) questions

A) Symptoms

- In patients with systemic Sclerosis (SSc) Sc, can the presence of *palpitation* be defined as primary heart involvement?
- In patients with SSc, can the presence of *syncope* be defined as primary heart involvement?
- In patients with SSc, can the presence of *dizziness* be defined as primary heart involvement?
- In patients with SSc, can the presence of *dyspnoea* be defined as primary heart involvement?
- In patients with SSc, can the presence of *chest pain* be defined as primary heart involvement?
- In patients with SSc, can the presence of *other symptoms* be defined as primary heart involvement?

B) Signs

- In patients with SSc, can the presence of *hypoxia* be defined as primary heart involvement?
- In patients with SSc, can the presence of *cyanosis* be defined as primary heart involvement?
- In patients with SSc, can the presence of *ankle swelling* be defined as primary heart involvement?
- In patients with SSc, can the presence of *s3/s4 sounds* be defined as primary heart involvement?
- In patients with SSc, can the presence of *bibasal lung crepitations* be defined as primary heart involvement?
- In patients with SSc, can the presence of *other clinical signs* be defined as primary heart involvement?

C) Anatomical site involved

- In patients with SSc, can the alteration of *pericardium* be defined as primary heart involvement?
- In patients with SSc, can the alteration of *epicardium* be defined as primary heart involvement?
- In patients with SSc, can the alteration of *endocardium* be defined as primary heart involvement?
- In patients with SSc, can the alteration of *myocardium* be defined as primary heart involvement?
- In patients with SSc, can the alteration of *valves* be defined as primary heart involvement?
- In patients with SSc, can the alteration of *atria* be defined as primary heart involvement?
- In patients with SSc, can the alteration of *ventricles* be defined as primary heart involvement?
- In patients with SSc, can the alteration of *coronary circulation* be defined as primary heart involvement?
- In patients with SSc, can the alteration of *intramural circulation* be defined as primary heart involvement?
- In patients with SSc, can the alteration of *heart size* be defined as primary heart involvement?
- In patients with SSc, can the alteration of *impulse origin* be defined as primary heart involvement?
- In patients with SSc, can the alteration of *conduction system* be defined as primary heart involvement?
- In patients with SSc, can the alteration of *other anatomical site* be defined as primary heart involvement?

D) Altered Physiologic function

- In patients with SSc, can the alteration of *muscle contraction* be defined as primary heart involvement?
- In patients with SSc, can the alteration of *muscle relaxation* be defined as primary heart involvement?
- In patients with SSc, can the alteration of *conduction* be defined as primary heart involvement?
- In patients with SSc, can the alteration of *automaticity* be defined as primary heart involvement?
- In patients with SSc, can the alteration of *atrial depolarization* be defined as primary heart involvement?

- In patients with SSc, can the alteration of *ventricular depolarization* be defined as primary heart involvement?
- In patients with SSc, can the alteration of *ventricular re-polarization* be defined as primary heart involvement?
- In patients with SSc, can the alteration of *wall motion* be defined as primary heart involvement?
- In patients with SSc, can the alteration of *perfusion* be defined as primary heart involvement?
- In patients with SSc, can the alteration of *other physiological function* be defined as primary heart involvement?

E) Pathological changes

- In patients with SSc, can the presence of *myocardial cellular hypertrophy* be defined as primary heart involvement?
- In patients with SSc, can the presence of *myocardial cellular hypotrophy* be defined as primary heart involvement?
- In patients with SSc, can the presence of *myocardial cellular atrophy* be defined as primary heart involvement?
- In patients with SSc, can the presence of *myocardial cellular necrosis* be defined as primary heart involvement?
- In patients with SSc, can the presence of *myocardial fibrosis* be defined as primary heart involvement?
- In patients with SSc, can the presence of *myocardial inflammation* be defined as primary heart involvement?
- In patients with SSc, can the presence of *myocardial collagen deposition* be defined as primary heart involvement?
- In patients with SSc, can the presence of *pericardial inflammation* be defined as primary heart involvement?
- In patients with SSc, can the presence of *pericardial haemorrhage* be defined as primary heart involvement?
- In patients with SSc, can the presence of *pericardial fluid alteration* be defined as primary heart involvement?
- In patients with SSc, can the presence of *cardiac vasculitis* be defined as primary heart involvement?
- In patients with SSc, can the presence of *cardiac vasculopathy* be defined as primary heart involvement?
- In patients with SSc, can the presence of *other cardiac pathologic change* be defined as primary heart involvement?

F) Prognostic outcomes

- In patients with SSc, can the development of *myocarditis* be defined as primary heart involvement?
- In patients with SSc, can the development of *heart failure* be defined as primary heart involvement?
- In patients with SSc, can the development of *acute coronary syndrome* be defined as primary heart involvement?
- In patients with SSc, can the development of *arrhythmia* be defined as primary heart involvement?
- In patients with SSc, can the development of *sudden death* be defined as primary heart involvement?